

Bramhall High School Chemistry



A level Sciences – Chemistry, (Need grade 6 and above and grade 6 in Maths)



End of year exams!!



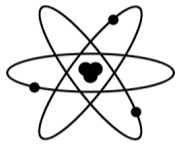
BTEC (Need Grade 5 in Science)



Other post 16 options – Apprenticeships, other A level subjects, other BTEC subjects, other training, College.



Review Core Practicals and consolidation of learning



- Positive and negative ion testing
- Choosing materials
- Composite materials
- Nanoparticles
- Alkanes and alkenes and their reactions
- Ethanol production
- Alcohols
- Carboxylic acids
- Addition polymerization
- Condensation polymerization
- Polymer properties and uses
- Problems with polymers
- Crude Oil
- Fractional Distillation
- Alkanes
- Complete and incomplete combustion
- Fuels and pollution
- Cracking hydrocarbons
- Earth's early atmosphere
- Atmospheric changes
- Climate change
- Collision theory
- Factors affecting rates
- Catalysts and activation energy
- Endothermic and exothermic
- Energy in reactions

- Indicators and pH
- Acid properties
- Bases and Salts
- Acids & alkalis
- Balancing equations
- Neutralisation
- Acids with metals and carbonates
- Solubility

C9b

C9a

C8

C7

YEAR 11

C9b

C9a

C8

C7

- Ionic bonding
- Ionic properties
- Covalent bonding
- Properties of covalent structures
- Properties and bonding of metals
- Bonding models

- Relative formula mass
- Empirical formula
- Conservation of mass
- Moles (Higher only)

- Reactivity of metals
- Ores
- Oxidation and Reduction
- Recycling and Life Cycle
- Electrolysis
- Equilibrium

- Transition metals
- Corrosion
- Electroplating and alloys
- Yield
- Atom economy
- Concentration
- Titration
- Gas volumes
- Fertilisers
- Factors affecting equilibrium
- Chemical and fuel cells

- Group 1
- Group 7
- Halogen Reactivity
- Group 0

YEAR 10

- Structure of an Atom
- Atomic mass
- The periodic table
- Atomic number and the history of the periodic table
- Electron configuration

- Explosions
- Reactivity
- Energy and reactions
- Displacement

- Ceramics
- Polymers
- Composite materials
- Problems with materials
- Recycling



National Curriculum Compliant

YEAR 9

- States of Matter
- Mixtures
- Filtration & crystallisation
- Chromatography
- Distillation
- Drinking water

C2

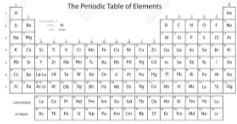
C1a

Reactivity

Making Materials

- Rocks and their uses
- Igneous and metamorphic
- Weathering and erosion
- Sedimentary rocks
- Materials in the Earth

Rocks



- Dalton's atomic model
- Chemical properties
- Mendeleev's table
- Chemical & physical trends

YEAR 8

Metals and non-metals

Chemical Reactions

Combustion

The Periodic Table

Metals and their uses

The air we breathe

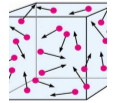
Atoms, Elements and Compounds

Making Compounds

- Burning fuels
- Oxidation
- Fire safety
- Air pollution
- Global warming

- Metal properties
- Corrosion
- Metals and water
- Metals and acids
- Pure metals and alloys

Air pressure



Diffusion

Brownian Motion

Acids and Alkalis

Chromatography

Solutions

Mixtures and Separation

YEAR 7

Particles

The Particle Model

Acid and Alkalinity

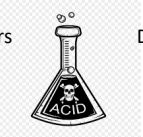
Indicators

Distillation

Evaporation

Mixture

Science Skills



welcome

